

Claim Listing

Claims 1-28 (canceled).

Claim 29. (original) A method of evaluating the propensity of a patient to develop schizophrenia comprising:

determining a nucleotide from a nucleic acid obtained from said patient which corresponds to the nucleotide occupying one or more Seq-40 polymorphic sites at positions

- 1) 601 and 1038,
- (2) 194 and 1038,
- (3) 601 and 2106,
- (4) 194 and 2106,
- (5) 194 and 601,
- (6) 1038 and 2106,
- (7) 601, 1038 and 2106,
- (8) 601, 1038 and 2185,
- (9) 194, 1038 and 2106,
- (10) 194, 601 and 1038,
- (11) 194, 1038 and 2185,
- (12) 601, 1038 and 2359,
- (13) 194, 601 and 2106,
- (14) 194, 601 and 1038,
- (15) 601, 2106 and 2359,
- (16) 601, 2106 and 2185,
- (17) 601, 1038 and 2106,
- (18) 601, 1038 and 2359,
- (19) 194, 601 and 2106,
- (20) 601, 1038, 2106 and 2185,
- (21) 194, 601, 1038 and 2106,
- (22) 194, 1038, 2106 and 2185,
- (23) 194, 601, 1038 and 2185,
- (24) 601, 1038, 2185 and 2359,
- (25) 601, 1038, 2106 and 2359,

(26) 194, 1038, 2185 and 2359 and

(27) 194, 601, 1038 and 2359

of SEQ ID NO: 1 on a single chromosome, and evaluating whether the patient has a propensity to develop schizophrenia.

Claim 30. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G and if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C.

Claim 31. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A and if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C.

Claim 32. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G and if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is a G.

Claim 33. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A and if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is a G.

Claim 34. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is a G and if

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the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof  
is a G.

Claim 35. (original) The method of claim 29, wherein the evaluation step comprises  
determining that the patient has less of a propensity to develop schizophrenia if the  
identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a  
G and if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a  
fragment thereof is an A.

Claim 36. (original) The method of claim 29, wherein the evaluation step comprises  
determining that the patient has less of a propensity to develop schizophrenia if the  
identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a  
G, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment  
thereof is a C and if the identity of the nucleotide at position 2106 of SEQ ID NO:1  
or a fragment thereof is a G.

Claim 37. (original) The method of claim 29, wherein the evaluation step comprises  
determining that the patient has a propensity to develop schizophrenia if the identity  
of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the  
identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is  
a C and if the identity of the nucleotide at position 2185 of SEQ ID NO:1 or a  
fragment thereof is a G.

Claim 38. (original) The method of claim 29, wherein the evaluation step comprises  
determining that the patient has less of a propensity to develop schizophrenia if the  
identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an  
A, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment  
thereof is a C and if the identity of the nucleotide at position 2106 of SEQ ID NO:1  
or a fragment thereof is a G.

Claim 39. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is a A, if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G and if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C

Claim 40. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C or G and if the identity of the nucleotide at position 2185 of SEQ ID NO:1 or a fragment thereof is a G or A.

Claim 41. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C and if the identity of the nucleotide at position 2359 of SEQ ID NO:1 or a fragment thereof is a G.

Claim 42. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A, if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G and if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is an A.

Claim 43. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a

G and if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C.

**Claim 44. (original)** The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is a G and if the identity of the nucleotide at position 2359 of SEQ ID NO:1 or a fragment thereof is a G.

**Claim 45. (original)** The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is a G and if the identity of the nucleotide at position 2185 of SEQ ID NO:1 or a fragment thereof is a G.

**Claim 46. (original)** The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is an A and if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is an A.

**Claim 47. (original)** The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C and if the identity of the nucleotide at position 2359 of SEQ ID NO:1 or a fragment thereof is a T.

**Claim 48. (original)** The method of claim 29, wherein the evaluation step comprises determining that the patient has less of a propensity to develop schizophrenia if the

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identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A, if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G and if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is a G.

Claim 49. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C, if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is a G if the identity of the nucleotide at position 2185 of SEQ ID NO:1 or a fragment thereof is a G.

Claim 50. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has less of a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A, if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C and if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is a G.

Claim 51. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C, if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment thereof is a G and if the identity of the nucleotide at position 2185 of SEQ ID NO:1 or a fragment thereof is a G.

Claim 52. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A, if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof

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is a G, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a  
fragment thereof is a C and if the identity of the nucleotide at position 2185 of SEQ  
ID NO:1 or a fragment thereof is a G.

Claim 53. (original) The method of claim 29, wherein the evaluation step comprises  
determining that the patient has a propensity to develop schizophrenia if the identity  
of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the  
identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is  
a C, if the identity of the nucleotide at position 2185 of SEQ ID NO:1 or a fragment  
thereof is a G and if the identity of the nucleotide at position 2359 of SEQ ID NO:1  
or a fragment thereof is a T.

Claim 54. (original) The method of claim 29, wherein the evaluation step comprises  
determining that the patient has a propensity to develop schizophrenia if the identity  
of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the  
identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is  
a C, if the identity of the nucleotide at position 2106 of SEQ ID NO:1 or a fragment  
thereof is a G and if the identity of the nucleotide at position 2359 of SEQ ID NO:1  
or a fragment thereof is a T or G.

Claim 55. (original) The method of claim 29, wherein the evaluation step comprises  
determining that the patient has a propensity to develop schizophrenia if the identity  
of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A, if  
the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof  
is a C, if the identity of the nucleotide at position 2185 of SEQ ID NO:1 or a  
fragment thereof is a G and if the identity of the nucleotide at position 2359 of SEQ  
ID NO:1 or a fragment thereof is a T.

Claim 56. (original) The method of claim 29, wherein the evaluation step comprises determining that the patient has a propensity to develop schizophrenia if the identity of the nucleotide at position 194 of SEQ ID NO:1 or a fragment thereof is an A, if the identity of the nucleotide at position 601 of SEQ ID NO:1 or a fragment thereof is a G, if the identity of the nucleotide at position 1038 of SEQ ID NO:1 or a fragment thereof is a C and if the identity of the nucleotide at position 2359 of SEQ ID NO:1 or a fragment thereof is a G.